

PHASE CONTRAST MICROSCOPE

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Abstract

PURPOSE: To provide a phase contrast microscope capable of effectively improving the resolving power without decreasing the contrast of an image.

CONSTITUTION in a phase contrast microscope arranging a ring slit 2 on the pupil position of an illuminating optical system, a phase ring 4 on the pupil position of an image forming optical system 3 which has a conjugate positional relation to the ring slit 2 through the surface of a sample and making a sample arranged on the surface of a sample to be observed by means of a phase- contrast method, the microscope is provided with an imaging element 6 arranged on the image forming surface of the image forming optical system, a storage means 7 storing a picture picked up by the imaging element 6 and a processing means 8 for processing the picture stored in the storage means 7, the phase ring 4 is composed so as to give the amount of a phase difference having the same phase and an inverted sign a picture having each amount of a phase difference is stored in the storage means 7 through the imaging element 6 and the difference picture of two stored pictures is obtained by means of the processing means 8.

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